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## NOTICE OF ALLOWANCE AND FEE(S) DUE

166

7590

09/28/2010

EXAMINER ANGADI, MAKI A

PAPER NUMBER

YOUNG & THOMPSON 209 Madison Street Suite 500 Alexandria, VA 22314

ART UNIT

DATE MAILED: 09/28/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/593,557	11/17/2006	Yasuhiko Kasama	8075-1111	4919

TITLE OF INVENTION: PRODUCTION METHOD OF MATERIAL FILM AND PRODUCTION APPARATUS OF MATERIAL FILM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	12/28/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

## Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

appropriate. All further indicated unless correct maintenance fee notifica	ted below or directed other ations.	nerwise in B	lock 1, by (a							
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)						Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
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YOUNG & TH 209 Madison Str Suite 500	reet			] S a t	l her State addre trans	eby certify that the	is Fee(:	of Mailing or Transo ) Transmittal is being ficient postage for firs ISSUE FEE address 1) 273-2885, on the d	deposi	ted with the United
Alexandria, VA	22314									(Depositor's name)
										(Signature)
				Į						(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENTOR			ATTORNEY DOCKET NO.		CONI	FIRMATION NO.
10/593,557	11/17/2006	•		Yasuhiko Kasama				8075-1111		4919
TITLE OF INVENTION	N: PRODUCTION METH	HOD OF MA	TERIAL FII	LM AND PRODUCTIO	ON A	APPARATUS OF	MATE	RIAL FILM		
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APPLN. TYPE	SMALL ENTITY	ISSUE F	EE DUE	PUBLICATION FEE DU	UE	PREV. PAID ISSUI	E FEE	TOTAL FEE(S) DUE		DATE DUE
nonprovisional	YES	\$7	755	\$300		\$0		\$1055		12/28/2010
EXAM	MINER	ART	UNIT	CLASS-SUBCLASS						
ANGADI	, MAKI A	17	713	427-569000						
1. Change of correspond CFR 1.363).	ence address or indicatio	n of "Fee Ad	dress" (37	2. For printing on the patent front page, list						
Change of corresp	oondence address (or Cha	inge of Corre	spondence	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,						
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. ☐ "Fee Address" indication (or "Fee Address" Indication form				(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to						
PTO/SB/47; Rev 03-0 Number is required.	Customer	2 registered patent attorneys or agents. If no name is listed, no name will be printed.								
3. ASSIGNEE NAME A	AND RESIDENCE DATA	A TO BE PR	INTED ON	THE PATENT (print or	r typ	e)				
PLEASE NOTE: Un	less an assignee is ident th in 37 CFR 3.11. Com	ified below,	no assignee	data will appear on th	e pa	tent. If an assign	ee is id	entified below, the de	ocumen	t has been filed for
(A) NAME OF ASSI	•	ortion or un	) IOIM 15 14O	(B) RESIDENCE: (C			OUNT	RY)		
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Please check the appropri	riate assignee category or	categories (	will not be p	rinted on the patent):		Individual 🖵 Co	orporati	on or other private gro	up entit	.y Government
4a. The following fee(s)	are submitted:		4!	b. Payment of Fee(s): (I		se first reapply ar	ıy prev	iously paid issue fee	shown a	above)
☐ Issue Fee☐ Publication Fee (No small entity discount permitted)				☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached.						
Advance Order - # of Copies				The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any						
5. Change in Entity Sta	tus (from status indicate	d abovo)		overpayment, to D	epos	at Account Number	er	(enclose a	ı extra o	copy of this form).
_ ~ .	nus (from status muicate ns SMALL ENTITY statt		FR 1.27.	☐ b. Applicant is no	long	er claiming SMAI	LL ENT	TTY status. See 37 CI	R 1.27	(g)(2).
NOTE: The Issue Fee an interest as shown by the	nd Publication Fee (if req	uired) will no	ot be accepte	d from anyone other the	an th	e applicant; a regi	stered a	ttorney or agent; or th	e assign	nee or other party in
interest as shown by the	records of the Officed Sta	nes ratent an	u Trauemark	Conice.						
Authorized Signature						Date				
Typed or printed name						Registration N	Го			
This collection of inform	nation is required by 37 C	CFR 1.311. T	he information	on is required to obtain	or re	etain a benefit by t	he publ	ic which is to file (and	by the	USPTO to process)
an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V	nuality is governed by 35 d application form to the ions for reducing this bu Virginia 22313-1450. DC	∪.S.C. 122 e USPTO. Ti rden, should D NOT SENI	and 3/ CFR me will vary be sent to th D FEES OR	1.14. This collection is depending upon the ince Chief Information Of COMPLETED FORMS	esti ndivi ffice TO	mated to take 12 i dual case. Any co r, U.S. Patent and THIS ADDRESS	ninutes mment Traden S. SENI	to complete, including on the amount of tire are Office, U.S. Department of TO: Commissioner of the total commissioner of	g gathe: ne you irtment for Pate	ring, preparing, and require to complete of Commerce, P.O. nts, P.O. Box 1450,
Alexandria, Virginia 223	313-1450.									

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/593,557	11/17/2006	Yasuhiko Kasama	8075-1111	4919		
466	7590 09/28/2010		EXAMINER			
YOUNG & THO	OMPSON	ANGADI, MAKI A				
209 Madison Stre	et	ART UNIT	PAPER NUMBER			
Suite 500	2314		1713			

## **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 217 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 217 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)		
	10/593,557	KASAMA ET AL.		
Notice of Allowability	Examiner	Art Unit		
	MAKI A. ANGADI	1713		
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED or other appropriate comr IGHTS. This application is	in this application. If not included nunication will be mailed in due course. <b>THIS</b>		
1. This communication is responsive to 6/15/2010.				
2. The allowed claim(s) is/are <u>3-7 and 9-22</u> .				
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority ur</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> <li>3.  Copies of the certified copies of the priority do</li> </ul>	been received. been received in Applicate	ion No		
International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		le a reply complying with the requirements		
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give				
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.			
(a) including changes required by the Notice of Draftspers	on's Patent Drawing Revi	ew ( PTO-948) attached		
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date				
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date				
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t				
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT				
Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date See Continuation Sheet	6.	Informal Patent Application Summary (PTO-413), b./Mail Date s Amendment/Comment		
<ol> <li>Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ol>	9.	s Statement of Reasons for Allowance 		
/Maki A Angadi/ Examiner, Art Unit 1713	/Lan Vinh/ Primary Exam	iner, AU 1713		

Continuation of Attachment(s) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date: 10/21/08, 9/25/09, 10/14/09.

### Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 6/15/2010 has been entered.

## Allowable Subject Matter

- 2. Claims 3-7 and 9-22 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

With respect to claims 3, 6, 18, 19, Applicants' arguments in the RCE filed on 6/15/2010 are persuasive because the closest prior art of record fails to disclose or render obvious a production method of encapsulating-fullerene material film in a vacuum vessel having plasma generation means wherein: "collision ions having diameters that are larger than diameters of cyclic rings of fullerene molecules or nanotubes molecules and having the same polarity as the encapsulation target ions" as defined in applicants' independent and amended claims 3, 6, 18, 19.

With respect to claims 13, 15, 16, 20, 21 and 22, the closest prior art of record fails to disclose or render obvious a production apparatus of

encapsulating-fullerene having plasma generation means wherein:

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"collision ions having diameters that are larger than diameters of cyclic rings of fullerene molecules or nanotubes molecules and having the same polarity as the encapsulation target ions" as defined in applicants' independent and amended claims 13, 15, 16, 20, 21, 22.

- 4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to MAKI A. ANGADI whose telephone number is (571)272-8213. The examiner can normally be reached on 8 AM to 4.30 PM.
- 6. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nadine G. Norton can be reached on 571-272-1465. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on

Application/Control Number: 10/593,557 Page 4

Art Unit: 1713

access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Lan Vinh/
Primary Examiner, Art Unit 1713

/Maki A Angadi/ Examiner, Art Unit 1713